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RADIO SERVICE BULLETIN

ISSUED MONTHLY BY BUREAU OF NAVIGATION, DEPARTMENT OF COMMERCE

Washington, May 1, 1920—No. 37

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DEPARTMENT OF COMMERCE,
BUREAU OF NAVIGATION,
Washington, August 1, 1919.

To collectors of customs, radio inspectors, and others concerned:

This publication, which was discontinued during the war, is issued monthly by the Bureau of Navigation, Department of Commerce, and distributed to the United States officers engaged in or concerned with the enforcement of the radio laws for their guidance and instruction, and to those concerned with the operation of Government and commercial radio stations for their information.

The Radio Service Bulletin supersedes the quarterly supplements to the List of Radio Stations of the United States and contains information concerning Government, commercial, and special stations only.

The Bulletin contains tables of new stations, alterations, and corrections under headings, so that the List of Radio Stations of the United States and the List of Radiotelegraph Stations published by the international bureau at Berne, may be brought up to date. Additions, alterations, and corrections should be entered in these two publications promptly on receipt of the Bulletin.

Amendments to or changes in the Radio Laws and Regulations of the United States (edition of Aug. 15, 1919) are printed in this Bulletin in such a manner that they may be clipped and pasted in their proper places in that publication.

Items of general interest concerning the enforcement of the radio laws are printed in the Bulletin from time to time, as occasion warrants.

E. T. CHAMBERLAIN,
Commissioner of Navigation.

Approved:

WILLIAM C. REDFIELD,
Secretary of Commerce.

NEW STATIONS.

COMMERCIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Station.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
Boston, Mass. ¹	WBF	300, 600	PG	N	Tropical Radio Telegraph Co.
New York, N. Y.	WHI	300, 600, 1700	PR	X ²	John Wanamaker.
Ogden, Utah.	KUPQ	200, 425	PR	X	Ogden-Portland Cement Co.
Philadelphia, Pa.	WHE	300, 600, 1700	PR	X ²	John Wanamaker.
Seattle, Wash. ³	KPE	300, 450, 525, 600	PG	N	City of Seattle, Harbor Department.
Wahiawa, Hawaii ⁴ ..	KHK	300, 550, 600	PG	N	Mutual Telephone Co.

¹ Rates, 12 cents per word for all classes of service; no minimum.

² Open from 9 a. m. to 5 p. m.

³ Rates, shipping traffic, free; private business, 6 cents per word.

⁴ Rates, ship service, 6 cents per word, no minimum; interisland service, 15 cents per word, no minimum; interisland night letter, 25 words, \$1; each additional word, 4 cents; relay charges, ship to islands of Hawaiian group other than Oahu, 4 cents per word; ship to ship, no charge.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Name of vessel.	Call signal.	Rates.		Service.	Hours.	Owner of vessel.	Station controlled by—
		North and South American service.	Trans-oceanic service.				
		Cents.	Cents.				
Arcoturus.....	KURD	4	4	PG		Natra Co.	
Artigas.....	KURG	4	4	PG	X	U. S. Shipping Board..	
Capillo.....	KUPM	4	4	PG	X	do.	
Cathwood.....	KURC	4	4	PG		do.	I. W. T. Co.
Chappaqua.....	KURF	4	4	PG	N	do.	
Chickasaw City.....	KUNZ	4	4	PG	N	U. S. Steel Products Co.	
City of Vernon.....	KUNS	4	4	PG	X	U. S. Shipping Board..	
Conehatta.....	KUQQ	4	4	PG	X	do.	
Conness Peak.....	KUPL	4	4	PG	X	do.	
Crudoil.....	KUQD	4	4	PG		Pan-American Petroleum & Transport Co.	R. C. of A.
Cubore.....	KUPP	4	4	PG	X	Ore S. S. Corporation..	
Darden.....	KUPK	4	4	PG	N	U. S. Shipping Board..	
Eastern Crown.....	KUNQ	4	4	PG		do.	Do.
Eastern Dawn.....	KUQT	4	4	PG		do.	Do.
Eastern Glade.....	KUND	4	4	PG		do.	Do.
Eastern Ocean.....	KUNF	4	4	PG		do.	S. O. R. S.
Eastern Planet.....	KUPD	4	4	PG		do.	I. W. T. Co.
Eastern Victor.....	KUNR	4	4	PG		do.	S. O. R. S.
Everett.....	KUQR	4	4	PG		Chas. R. McCormick & Co.	
Evergreen City.....	KUNJ	4	4	PG	X	U. S. Shipping Board..	
Fishers Island.....	KUPZ	4	4	PG	X	do.	
Freeport Sulphur No. 6.....	KUNP	4	4	PG		Freeport Sulphur Transportation Co.	R. C. of A.
Fueloil.....	KUQB	4	4	PG		Pan-American Petroleum & Transport Co.	Do.
George B. MacKenzie.....	KUNT	4	4	PG	X	American Bauxite Co.	Do.
Greenland.....	KUPG	4	4	PG	N	U. S. Shipping Board..	S. O. R. S.
Hahatonka.....	KUPF	4	4	PG	X	do.	Do.
Hawarden.....	KUPX	4	4	PG		do.	R. C. of A.
Hinckley.....	KURB	4	4	PG		do.	
Italia.....	KUPB	4	4	PG	X	Submarine Boat Corporation.	
Jennie R. Morse.....	KUNN	4	4	PG		U. S. Shipping Board..	
J. F. Penrose.....	KUQN	4	4	PG	X	do.	
Juvigny.....	KUQX	4	4	PG	X	Independent S. S. Co.	
Kehuku.....	KUPV	4	4	PG	N	U. S. Shipping Board..	
Lake Gunni.....	KUNC	4	4	PG	X	do.	
Lake Harminia.....	KUNB	4	4	PG		do.	

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS—continued.

Name of vessel.	Call signal.	Rates.		Service.	Hours.	Owner of vessel.	Station controlled by—
		North and South American service.	Trans-oceanic service.				
		<i>Cents.</i>	<i>Cents.</i>				
Lake Hector.....	KUMZ	4	4	PG	X	U. S. Shipping Board.	
Lake Flag.....	KUMX	4	4	PG	X	do.	
Lake Galucus.....	KUMV	4	4	PG	X	do.	
Las Vegas.....	KUQM	4	4	PG	X	do.	R. C. of A.
Margaret.....	KUQS			PG		Red Salmon Canning Co.	
Martha Washington.....	KUQF	4	4	PG	N	U. S. Shipping Board.	S. O. R. S.
Montfaucon.....	KUQZ			PG	X	Independent S. S. Co.	
Nanquitt.....	KUQV	4	4	PG	X	U. S. Shipping Board.	
Naugus.....	KUPS	4	4	PG		do.	R. C. of A.
Neshobee.....	KUNK	4	4	PG	X	do.	
Oronoke.....	KUNL	4	4	PG	X	do.	
Padnsay.....	KUQG	4	4	PG		do.	S. O. R. S.
Panoil.....	KUQC	4	4	PG		Pan-American Petroleum & Transport Co.	R. C. of A.
Patrick Henry.....	KUPM	4	4	PG	X	U. S. Shipping Board.	Do.
Penthis.....	KUPC			PG		Sugar Products Co.	
Pulaski.....	KUQL	4	4	PG		U. S. Shipping Board.	
Rochellie.....	KUNX			PG			
Sepulga.....	KURK	4	4	PG	N	U. S. Shipping Board.	
Solitaire.....	KUMT			PG	X	Texas S. S. Co.	
Unicoi.....	KUQP	4	4	PG		U. S. Shipping Board.	
Union Liberty.....	KUNG	4	4	PG	X	do.	
Waterbury.....	KUPT	4	4	PG	X	do.	
West Cahokia.....	KUPJ	4	4	PG		do.	I. W. T. Co.
West Keats.....	KUQK	4	4	PG		do.	S. O. R. S.
West Nivaria.....	KUQJ	4	4	PG		do.	Do.
Wheeling Mold.....	KUMN	4	4	PG	X	do.	
Winona.....	KUNV	4	4	PG	X	do.	R. C. of A.
W. K. Bixby.....	KURJ	4	4	PG		American S. S. Co.	Do.

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

[b=ship station; c=land station.]

Call signal.	Name.	Call signal.	Name.
KHK	Wahiawa, Hawaii.....c	KUPB	Italia.....b
KPE	Seattle, Wash.....c	KUPC	Penthis.....b
		KUPD	Eastern Planet.....b
KUMT	Solitaire.....b	KUPF	Hahatonka.....b
KUMV	Lake Galucus.....b	KUPG	Greenland.....b
KUMX	Lake Flag.....b	KUPJ	West Cahokia.....b
KUMZ	Lake Hector.....b	KUPK	Darden.....b
		KUPL	Conness Peak.....b
KUNB	Lake Harminia.....b	KUPM	Patrick Henry.....b
KUNC	Lake Gunnl.....b	KUPN	Capillo.....b
KUND	Eastern Blade.....b	KUPP	Cubore.....b
KUNF	Eastern Ocean.....b	KUPQ	Ogden, Utah.....c
KUNG	Union Liberty.....b	KUTR	*
KUNJ	Evergreen City.....b	KUPS	Naugus.....b
KUNK	Neshobee.....b	KUPT	Waterbury.....b
KUNL	Oronoke.....b	KUPV	Kehuku.....b
KUNM	Wheeling Mold.....b	KUPX	Hawarden.....b
KUNN	Jennie R. Morse.....b	KUPZ	Fishers Island.....b
KUNP	Freeport Sulphur No. 6.....b		
KUNQ	Eastern Crown.....b	KUQB	Fueloil.....b
KUNR	Eastern Victor.....b	KUQC	Panoil.....b
KUNS	City of Vernon.....b	KUQD	Crudoil.....b
KUNT	George B. MacKenzie.....b	KUQF	Martha Washington.....b
KUNV	Winona.....b	KUQG	Padnsay.....b
KUNX	Rochellie.....b	KUQJ	West Nivaria.....b
KUNZ	Chickasaw City.....b	KUQK	West Keats.....b

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS—continued.

Call signal.	Name.	Call signal.	Name.
KUQL	Pulaski.....b	KURD	Arcturus.....b
KUQM	Las Vegas.....b	KURF	Chappaqua.....b
KUQN	J. F. Penrose.....b	KURG	Artigas.....b
KUQP	Unicol.....b	KURJ	W. K. Bixby.....b
KUQQ	Conehatta.....b	KURK	Sepulga.....b
KUQR	Everett.....b		
KUQS	Margaret.....b		
KUQT	Eastern Dawn.....b		
KUQV	Nanquitt.....b		
KUQX	Juvigny.....b		
KUQZ	Montfaucon.....b		
KURB	Hinckley.....b	WBF	Boston, Mass.....c
KURC	Cathwood.....b	WHE	Philadelphia, Pa.....c
		WHI	New York, N. Y.....c

GOVERNMENT SHIP STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the list of Radio Stations of the United States, edition of June 15, 1919.]

Name of ship.	Call signal.	Name of ship.	Call signal.
Peary.....	NUQD		

SPECIAL LAND STATIONS, ALPHABETICALLY, BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 15, 1919, only.]

Station.	Call signal.	Station controlled by—
Ann Arbor, Mich.....	8XA	University of Michigan.
Auburn, N. Y.....	8YA	Colby's Telegraph School.
Baltimore, Md.....	3XD	Johns Hopkins University.
Battle Creek, Mich.....	8ZC	Bert E. Clough.
Blackwell, Okla.....	8ZZ	Harold Schonwald.
Boston, Mass.....	1YC	Eastern Radio Institute.
Bozeman, Mont.....	7XB	Montana State College.
Bozeman, Mont.....	7ZD	R. Earl Dawes.
Cambridge, Mass.....	1XJ	Harvard University.
Camp Dix, N. J.....	2YA	Knights of Columbus.
Chicago, Ill.....	9ZN	Ralph H. G. Mathews.
Cliffwood, N. J.....	2XF	Western Electric Co.
Clifton, N. J.....	2ZM	Lester Spangenburg.
College Station, Tex.....	5XB	Agricultural & Mechanical College of Texas.
Denver, Colo.....	9ZD	Edward C. Stockman.
Dover, Ohio.....	8ZX	Harry S. Weber.
Eagle Pass, Tex.....	5ZN	Ed. Nettleton.
Elberon, N. J.....	2XJ	Western Electric Co.
Elk, Wyo.....	7ZE	Harold Prescott Sheard.
Green Harbor, Mass.....	1XD	Western Electric Co.
Independence, Mo.....	9ZH	Reorganized Church of Christ of Latter Day Saints.
Ithaca, N. Y.....	8XU	Cornell University.
Kingston, R. I.....	1YA	Rhode Island State College.
Lacey, Wash.....	7YS	St. Martin's College.
Little Rock, Ark.....	5YH	United States Signal Corps.
Lynn, Mass.....	1XL	General Electric Co.
Madison, Wis.....	9XM	University of Wisconsin.
Manhattan, Kans.....	9YV	Kansas State Agricultural College.
Manitowoc, Wis.....	9ZL	W. C. Bridges and H. J. Burhop.
New Haven, Conn.....	1ZC	A. C. Gilbert Co.
New Rochelle, N. Y.....	2ZK	George C. Cannon.
New York, N. Y.....	2YT	Marconi Institute.
New York, N. Y.....	2XB	Western Electric Co.
New York, N. Y.....	2XG	De Forest Radio Telephone & Telegraph Co.

SPECIAL LAND STATIONS, ALPHABETICALLY, BY NAMES OF STATIONS—
continued.

Station.	Call signal.	Station controlled by—
New York, N. Y.	2XO	Walter G. Hudson.
Norfolk, Va.	3ZC	City of Norfolk, Department of Public Safety.
Nutley, N. J.	2ZH	Arthur A. Hebert.
Pittsburgh, Pa.	8XK	Frank Conrad.
Pittsburgh, Pa.	8YZ	Feabody High School.
Rockville Center, N. Y.	2ZL	J. Owen Smith.
Savannah, Ga.	4XB	Board of Public Education.
Schenectady, N. Y.	2XA	E. M. Kinney.
Seattle, Wash.	7XZ	University of Washington.
Shreveport, La.	5ZS	William E. Antony.
Springfield, Ill.	9ZS	Illinois Watch Co.
Springfield, Mass.	1ZK	Glenn C. Sabin.
State College, N. Mex.	5XD	New Mexico College.
State College, Pa.	8XE	Pennsylvania State College.
Valparaiso, Ind.	9XD	Dodge's Institute of Telegraphy.
Vancouver, Wash.	7ZB	John D. Hartz.
Washington, D. C.	3XH	Lester S. Barr.
Wayne, Nebr.	9YT	State Normal School.
Wheeling, W. Va.	8ZW	John C. Stroebel, jr.
Wilkes-Barre, Pa.	8ZS	John H. Stanger, jr.

SPECIAL LAND STATIONS GROUPED BY DISTRICTS.

Call signal.	District and station.	Call signal.	District and station.
1XD	First district:	7XB	Seventh district:
1XJ	Green Harbor, Mass.	7XZ	Bozaman, Mont.
1XL	Cambridge, Mass.	7YS	Seattle, Wash.
1YA	Lynn, Mass.	7ZB	Lacey, Wash.
1YC	Kingston, R. I.	7ZD	Vancouver, Wash.
1ZC	Boston, Mass.	7ZE	Bozaman, Mont.
1ZK	New Haven, Conn.		Elk, Wyo.
2XA	Springfield, Mass.	8XA	Eighth district:
2XB	Schenectady, N. Y.	8XE	Ann Arbor, Mich.
2XF	New York, N. Y.	8XK	State College, Pa.
2XG	Cliffwood, N. J.	8XU	Pittsburgh, Pa.
2XJ	New York, N. Y.	8YA	Ithaca, N. Y.
2XO	Elberon, N. J.	8YZ	Auburn, N. Y.
2YA	New York, N. Y.	8ZC	Pittsburgh, Pa.
2YT	Camp Dix, N. J.	8ZS	Battle Creek, Mich.
2ZH	New York, N. Y.	8ZB	Wilkes-Barre, Pa.
2ZK	Nutley, N. J.	8ZX	Dover, Ohio.
2ZL	New Rochelle, N. Y.	8ZW	Wheeling, W. Va.
2ZM	Rockville Center, N. Y.		Ninth district:
3XD	Clifton, N. J.	9XD	Valparaiso, Ind.
3XH	Third district:	9XM	Madison, Wis.
3ZC	Baltimore, Md.	9YT	Wayne, Nebr.
4XB	Washington, D. C.	9YV	Manhattan, Kans.
5XB	Norfolk, Va.	9ZD	Denver, Colo.
5XD	Fourth district: Savannah, Ga.	9ZH	Independence, Mo.
5YH	Fifth district:	9ZL	Manitowoc, Wis.
5ZN	College Station, Tex.	9ZN	Chicago, Ill.
5ZS	State College, N. Mex.	9ZS	Springfield, Ill.
5ZZ	Little Rock, Ark.		
	Eagle Pass, Tex.		
	Shreveport, La.		
	Blackwell, Okla.		

ABBREVIATIONS.

The necessary corrections to the List of Radio Stations of the United States and to the International List of Radiotelegraph Stations, appearing in this Bulletin under the heading "Alterations and corrections," are published after the stations affected in the following order:

Name = Name of station.

G. loc. = Geographical location: O=west longitude, N=north latitude, S=south latitude.

- Call** =Call letters assigned.
System =Radio system used and sparks per second.
Range =Normal range in nautical miles.
W. L. =Wave lengths assigned: Normal wave lengths in italics.
Service =Nature of service maintained:
 PG=General public.
 PR=Limited public.
 P =Private.
 O =Government business exclusively.
Hours =Hours of operation:
 N =Continuous service.
 X =No regular hours.
 m =a. m. (12m=midday).
 s =p. m. (12s=midnight).
Rates =Ship or coast charges, in cents: c=cents. (The rates in the international list are given in francs and centimes. For approximate purposes, 1 franc equals 20 cents and 5 centimes equal 1 cent.)
I. W. T. Co.=Independent Wireless Telegraph Co.
R. C. of A. =Radio Corporation of America.
S. O. R. S. =Ship Owners Radio Service.

ALTERATIONS AND CORRECTIONS.

COMMERCIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations, published by the Berne bureau.]

- NEW LONDON, CONN.**—Rates, transoceanic ships, 6 cents per word; no minimum.
NEWPORT, R. I.—Hours X (licensed to operate 23 hours daily); rates, coastwise and transoceanic ships 6 cents per word, no minimum; ships plying between ports within 200 miles of New York 3 cents per word, no minimum.
SALTCHUCK, ALASKA.—Station operated and controlled by Saltchuck Mining Co.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 15, 1919, and to the International List of Radiotelegraph Stations, published by the Berne bureau.]

- ANCON.**—Panama Railroad Co. owner of vessel.
APPELES.—Name changed to Kermit.
ARAGON.—Rates, North and South American, and transoceanic service 4 cents per word; station operated and controlled by Cutting and Washington Radio Corporation.
CHAS. R. VAN HISE.—Name changed to A. E. R. Schneider.
CITY OF SHERMAN.—Pensacola Shipbuilding Co. owner of vessel.
COLUMBIA.—Station operated and controlled by owner of vessel.
COTOPAXI.—Clinchfield Navigation Co. owner of vessel; station operated and controlled by R. C. of A.
EASTERN STAR.—Standard S. S. Co. owner of vessel.
FRANCIS L. SKINNER.—Name changed to Oran.
GLOBIETA.—Muniala S. S. Corporation owner of vessel.
GOVERNOR FORBES.—Name changed to Caldas.
HUACHUCA.—Name changed to Orinoco.
JOHN F. PENROSE.—Rates, North and South American, and transoceanic service 4 cents per word; station operated and controlled by Cutting and Washington Radio Corporation.
KARINA.—Service, P; hours, X; France & Canada S. S. Co. owner of vessel; station operated and controlled by owner of vessel.
KERESAN.—Kerr Navigation Corporation owner of vessel.
KERLEW.—Kerr Navigation Corporation owner of vessel.
K. I. LUCKENBACH.—Luckenbach S. S. Corporation owner of vessel.
PARAISO.—Station operated and controlled by owner of vessel.
SAN ANTONIO.—Station operated and controlled by owner of vessel.

SAN RAMON.—Rates, 8 cents per word for all services; station operated and controlled by Wireless Service Co.
 SANTA TERESA.—Grace S. S. Co. owner of vessel.
 STAR 1.—Station operated and controlled by owner of vessel.
 SUSANNA II.—Correct name SUSANA II; station operated and controlled by owner of vessel.
 TAMESI.—Sinclair Navigation Co. owner of vessel.
 WEST CALERA.—Western Pipe & Steel Co. owner of vessel.
 YUMA.—Tropical Fruit Co. owner of vessel.

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE INDEPENDENT WIRELESS TELEGRAPH CO.

Arizpa.	El Occidente.	Orient.
Clemence C. Morse.	Lake Fitch.	Plow City.
Colthraps.	Liberty Bell.	Quinneseco.
Commack.	Monroe.	Tashmoo.
Dellwood.	New England.	West Hixton.
Des Moines.		

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE RADIO CORPORATION OF AMERICA (FORMERLY MARCONI CO.).

Atlantic Sun.	Corone.	Sabine Sun.
Centaurus.	Eagle.	Sacramento.
Circinus.	Lake Butler.	Sinsinawa.
Conejos.	Rock Island.	

THE STATIONS OF THE FOLLOWING-NAMED VESSELS ARE OPERATED AND CONTROLLED BY THE SHIP OWNERS RADIO SERVICE (INC.).

Ashland County.	Lake Fighting.	Utoka.
Cethana.	Lake Fillion.	Wallula.
Collingsworth.	Lake Galewood.	West Campgaw.
Comerant.	Moravia Bridge.	Winston-Salem.
Eastern Belle.	Oneonta.	Worcester.
Coolcha.		

Strike out all particulars of the following-named vessels:

Braddock.	Gut Heil.	Lakeport.
Brookhaven.	Lake Damita.	Lake Worth.
Copan.	Lake Duane.	Quoque.
Cubadist.	Lake Felicity.	Randolph S. Warner.
Euharlee.	Lake Forest.	Santino.
Fairfield.	Lake Licking.	Singleton Palmer.

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KBEA, *read* Lake Weir; KEMG, *read* Susana II; KIMX, *read* Orinoco; KOQV, *read* Caldas; WFUI, *read* A. E. R. Schneider; WMV, *read* Kermit; WQK, *read* Oran; and WLO, *read* WSO. Strike out all particulars following the call signals: KBIE, KBII, KETG, KLII, KLOA, KNV, KPOE, KPV, KRY, KTAE, KUMP, KVUI, WOQ, WPUA, WRAO, WSAI, WSIU, and WZEO.

GOVERNMENT LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 15, 1919.]

BULL ISLAND, S. C. (radio compass), strike out all particulars.
 SIMSADUS, LONDON, strike out all particulars.

GOVERNMENT SHIP STATION, ALPHABETICALLY BY NAME OF VESSEL.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 15, 1919.]

DURHAM, strike out all particulars.

GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

Strike out all particulars following the call signals: NEDD, NGO, and NZY.

SPECIAL LAND STATION, BY NAME OF STATION.

LEXINGTON, KY.—9YB changed to 9YC.

MISCELLANEOUS.

APPLICATIONS FOR RADIO CALL LETTERS.

Applications for radio call letters for ships should be filed with the collectors of customs at the various ports at the time application is made for the official number and signal letters and *not* before such time. When the official number has already been assigned, the application should give the number, and, in case a vessel has had a former name, the name should be given. All particulars regarding the hours of service, class of service, rates, etc., should be reported without delay in order that the information can be published in the RADIO SERVICE BULLETIN. When it is very inconvenient to apply to the collector of customs, application may be made to the radio inspector.

LAND-STATION LICENSES.

All commercial land stations, experimental and technical and training stations are required to obtain a license before operating, as required by section 1 of the act of August 13, 1912. The filing of the application or the assignment of radio call letters does not constitute authority for operating a station. Owners of stations who fail to comply with the above requirements may expect action to be taken in accordance with the above-cited act.

AMENDMENTS.

The Radio Laws and Regulations of the United States, edition August 15, 1919, are hereby amended as follows:

Page 58, paragraph 86, amended April 15, 1920, to read:

When applications and forms have been properly submitted, *ship and amateur* stations may be operated in accordance with the laws and regulations governing the class of station for which application for license has been made, until such time as the application can be acted upon unless the applicant is otherwise instructed and provided temporary official call letters are assigned.

Page 63, paragraph 119, amended May 1, 1920, to read:

If the applicant qualifies, the radio inspector or examining officer will forward the papers to the Commissioner of Navigation, with his recommendation. If approved, the license will be properly indorsed by the Secretary of Commerce and delivered to the licensee through the recommending officer.

It will be noted that the following was eliminated from the above paragraph: "*A blank commercial license, with.*"

RATE CHANGES.

Effective May 1, 1920, the International Radio Telegraph Co. is authorized to charge 6 cents per word, no minimum, for transoceanic service, instead of 12 cents per word, minimum \$1.20, and to make no minimum charge for other classes of service. These rates to apply to their stations at New London, Conn., and Newport, R. I.

NORTH SEA MINE RADIO SERVICE.

Mine warnings to Mariners No. 338, British Admiralty, London published the following:

Alterations in the marking of the mine-free channels in the North Sea, and information regarding mines, are transmitted by the German naval radio station at Borkum every four hours, at 8 a. m., noon, 4 p. m., etc. (central European time), with a wave length of 600 meters. All merchant vessels are advised, in the interests of safety to keep continuous radio watch while proceeding within the limits of the mined areas.

TIME SIGNALS BY RADIO.

The Director of Naval Communications advises that time signals are being transmitted by the United States naval radio stations as follows:

Station.	Call letters.	Wave lengths.	When sent.
		<i>Meters.</i>	
Annapolis, Md.....	NSS	¹ 17,000	Daily at 11.55 a. m. to noon and 9.55 to 10 p. m., standard time, seventy-fifth meridian.
Balboa, Panama.....	NBA	¹ 7,000	Daily at 4.55 to 5 a. m. and 12.55 to 1 p. m., standard time, seventy-fifth meridian.
Cavite, P. I.....	NPO	¹ 5,000	Daily at 10.55 to 11 a. m. and 9.55 to 10 p. m., standard time, one hundred and twentieth meridian, east.
Colon, Panama.....	NAX	² 952	Daily at 4.55 to 5 a. m. and 12.55 to 1 p. m., standard time, seventy-fifth meridian.
Eureka, Calif.....	NPW	2,000	Daily at 11.55 a. m. to noon, standard time, one hundred and twentieth meridian, west.
Great Lakes, Ill.....	NAJ	1,512	Daily except Sundays and holidays at 10.55 to 11 a. m., standard time, ninety-fifth meridian.
Key West, Fla.....	NAR	1,500	Daily at 11.55 a. m. to noon, standard time, seventy-fifth meridian.
New Orleans, La.....	NAT	1,000	Daily at 11.55 a. m. to noon, standard time, seventy-fifth meridian.
North Head, Wash.....	NPE	2,800	Daily at 11.55 a. m. to noon, standard time, one hundred and twentieth meridian, west.
Pearl Harbor, Hawaii.....	NPM	¹ 11,200	Daily at one hundred and eightieth meridian, mean noon.
Point Arguello, Calif.....	NPK	² 600	Daily except Sundays and holidays at 11.55 a. m. to noon, standard time, one hundred and twentieth meridian, west.
San Diego, Calif.....	NPL	¹ 9,800	Daily except Sundays and holidays at 11.55 a. m. to noon, standard time, one hundred and twentieth meridian, west.
San Francisco, Calif.....	NPH	² 2,400	Daily at 11.55 a. m. to noon, standard time, one hundred and twentieth meridian, west.
Washington, D. C.....	NAA	² 2,400	Daily at 11.55 a. m. to noon, and 9.55 to 10 p. m., standard time, seventy-fifth meridian.
		2,500	

¹ Arc.² Spark.

CHANGE OF TIME IN THE BRITISH ISLANDS.

From 2 a. m. (Greenwich mean time) on March 28, 1920, until further notice British summer time, which is one hour in advance of Greenwich mean time, will be kept in the British Islands.

The clock time of all visual time signals, with the exception of the time gun at Edinburgh Castle, which will be fired at noon (Greenwich mean time), corresponding to 1h. 00m. 00s., British summer time, will be one hour later than the time shown in the Admiralty List of Time Signals under the column "Standard Time," the Greenwich mean time of the time signals remaining the same as shown in Admiralty publications.

In the Admiralty tide tables full information is given as to the time used.

In all cases in which the time shown by the clock differs from that used in the tide tables the difference must be applied to the time of the tide as obtained from the tide tables.

NOTE.—Greenwich mean time should invariably be used, both in Great Britain and Ireland, in all tidal records kept for permanent reference.

It should be noted that the change in time also temporarily affects certain Admiralty sailing directions and charts, etc., as well as the tables showing the duration of "official night" embodied in the public traffic regulations for various defended ports.

USE OF 800 METER WAVE LENGTH.

The wave length of 800 meters, for radio compass work exclusively, must not be used for general public service messages. This is prohibited by the act of August 13, 1912, and the International Radiotelegraphic Convention.

EXAMINATIONS.

On and after this date radio inspectors will be governed by regulation 133 in the reexamination of applicants for radio operators' licenses, which requires applicants who fail to pass to wait three months before applying for another examination.

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